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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,526	06/25/2003	James P. Reilly	32993-72727	4086
23643	7590	09/08/2004		EXAMINER
BARNES & THORNBURG 11 SOUTH MERIDIAN INDIANAPOLIS, IN 46204			LEYBOURNE, JAMES J	
			ART UNIT	PAPER NUMBER
			2881	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/603,526	REILLY ET AL.
	Examiner James J. Leybourne	Art Unit 2881

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-4,6,9-12,14 and 16-19 is/are rejected.
- 7) Claim(s) 5,7,13 and 15 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 25 June 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 10/16/03.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 4, 9 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Krutchinsky et al. (US 20020148972).

In Fig. 2, Krutchinsky et al. disclose a MALDI pulsed ionizer 12 includes a laser 20 configured to pulse a sample located on a substrate 22. The laser 20 is focused on the sample through a lens 24 and a mirror 26 directs the collimated laser beam through a window 25 towards the surface of the substrate 22. The mirror 26 is preferably configured to be "wobbled" in order to scan the sample with the laser beam [0028]. It is inherent that a processing unit is used to operate the laser source and control the steering of the laser beam over the sample.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 3, 6, 8, 10, 11, 14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krutchinsky et al. as applied to claims 1 and 9 above, in view of Hughey et al. (USPN 6707035). Regarding claims 6, 8, 14 and 16, in Fig. 5, Krutchinsky et al. teach placing samples to be analyzed on a sample stage arranged in a predetermined geometric pattern. However, they are silent regarding use of a mirror array comprising separate mirrors for X and Y motion of the beam.

In Fig 11a, Hughey et al. disclose a laser beam **1100** directed through a window **1102** in a sealed chamber containing a catalyst plate **1104**. They teach that the catalyst plate **1104** can be stationary and provisions can be included for scanning the laser beam **1100** in either one or two dimensions using one or more moving mirrors (column 14, lines 50-54). It would be obvious to one of ordinary skill in the art that the X and Y scanning mirrors of Hughey et al. could be used to provide the scanning capability in the pulsed ionizer of Krutchinsky et al. and this would be desirable because Krutchinsky et al. teach the mirror **26** is preferably configured to be "wobbled" in order to scan the sample with the laser beam [0028].

Allowable Subject Matter

5. Claims 5, 7, 13 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter:

With respect to claims 5, 7, 13 and 15, the prior art fails to teach or fairly suggest a method or apparatus for scanning a MALDI source support using a logarithmic spiral pattern.

Relevant Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USPN 6558902 to Hillenkamp teaches that target sites for a MALDI source can be arranged in any pattern, for example, in a line, a spiral, concentric circles, rows, or an array of rows and columns.

US 2004/0023410 published by Stacey discusses a MALDI sample deposited in a spiral.

Conclusion

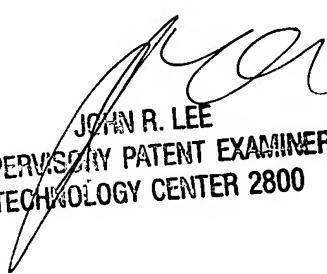
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James J. Leybourne whose telephone number is (571) 272-2478. The examiner can normally be reached on M-F 9:00- 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 26, 2004

JJL


JOHN R. LEE
SUPERVISION PATENT EXAMINER
TECHNOLOGY CENTER 2800